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Risk Informed Regulation
Technical Requirements

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Principles

- Use a blend of risk-insights, operating experience and engineering to better focus NRC requirements, regulatory and licensee activities on safety-significant matters
- Where practical, monitor licensee performance against pre-established criteria
- Regulations should define the “what” not the “how to”

Scope of NRC Special Treatment Requirements

- Focus NRC special treatment requirements on safety-significant SSCs
  - NRC special treatment requirements should not be applied to low safety-significant SSCs
    - Industrial (BOP) treatment is sufficient for low safety-significant SSCs

Option 2 Status

- NRC reviewing draft categorization implementation guide
- Final rule – 2003
  - NOPR -- 2Q/2002
- Issue
  - Principles of risk-informed, performance-based regulation should be reflected in rule and implementation guidance

Risk-Informing NRC Technical Requirements

- Long term activity
- Requires patience and persistence
- Need to focus on what can be achieved in near term and enable longer term improvements
  - Unbundle straightforward improvements from more complex and challenging tasks

Option 3 Status

- 10 CFR 50.44
- 10 CFR 50.46
  - LOOP-LOCA/ Single Failure criterion
  - Redefinition of LBLOCA
- Appendix K
  - Adoption of ANS 5.1, 1994 Decay Heat Standard
- Framework for implementation

Regulatory Framework for New Plants

- Need ?
- Risk-Informed, Performance-Based
- Applicable to all designs and all types of reactor
- Significant emphasis on PRA
- Industry white paper 2Q/2002
  - Catalyst for ANPR in 4Q/2002